

Permitting Oil and Gas Section

State of West vilgand
DEPARTMENT OF ENERGY
Division of Oil and Ga State of West Virginia Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: REED, BRADFORD D.

Operator Well No.: SANDY #2

LOCATION: Elevation: 1170.00 Quadrangle: WEST UNION

District: GRANT County: DODDRIDGE
Latitude: 1880 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 6440 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: STONEWALL GAS CO.

P. O. BOX 1575

RICHMOND, VA 23213-1575

Agent: JESSE SHELL

Inspector: MIKE UNDERWOOD

Permit Issued: 08/30/89
Well work Commenced: 06-07-90 Well work Completed: 06-15-90

Verbal Plugging

Permission granted on:

Rig Rotary X Cable Rig
Total Depth (feet) 5401 Fresh water depths (ft)

70, 220 Salt water depths (ft) _____ 1930, 1959

Is coal being mined in area (Y/N)? N Coal Depths (ft): NA

Casing &	Used in		Cement Fill Up
Tubing	Drilling	in Well	Cu. Ft.
Size			enotifies enement
11 3/4	176	176	90 SKS
			Total Control of Contr
8 5/8	1367	1367	360 SKS
4 1/2	5236	5236	710 SKS
	Congress manager		
		4	

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) $\frac{5147}{6as}$ Gas: Initial open flow * MCF/d Oil: Initial open flow N/A Bbl/d Final open flow $\frac{1632}{1000}$ MCF/d Final open flow $\frac{1632}{1000}$ MCF/d Final open flow $\frac{1632}{1000}$ Hours Static rock Pressure 1625 psig (surface pressure) after 168 Hours

Second producing formation Pay zone depth (ft)

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours Static rock Pressure ____psig (surface pressure) after _

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

*UNABLE TO DETERMINE DUE TO NATURAL OPEN FLOW FROM INJUN

For: STONEWALL GAS CO.

AUGUST 3, 1990

PETROLEUM ENGINEER

don w

STAGES 1	FRAC WATER DATE	JULY 10, 1990	<i>W</i> 6	
ZONES	PERFS	HOLES	BBL BP	ISIP
BENSON	5147-5154	21 800	1854	-1650

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM REMARKS
SAND	BROWN	SOFT	0	10
RED ROCK	RED	HARD	10	18
SAND	BROWN	HARD	18	40
RED ROCK & SHAI	LE GRAY	HARD	40	120
SAND & SHALE	GRAY	SOFT	120	230
RED ROCK & SHAI	LE RED	HARD	230	360
SAND & SHALE	BROWN	HARD	360	560
SHALE & RED ROO		HARD	560	580
SAND	BROWN	SOFT	580	640
SAND & SHALE	BROWN	HARD	640	795
COAL	BLACK	SOFT	795	800
SAND & SHALE	BROWN	SOFT	800	960
SHALE & RED ROC		SOFT	960	1120
SAND	BROWN	SOFT	1120	1270
SAND & SHALE	BROWN	HARD	1270	1475
RED ROCK & SHAL		HARD	1475	1670
SAND & SHALE	GRAY	SOFT	1670	1928
SAND	BROWN	SOFT	1928	1995
RED ROCK	RED	HARD	1995	2032
L-LIME	BROWN	SOFT	2032	2150
INJUM,	GRAY	SOFT	2150	2285
SAND & SHALE	GRAY	HARD	2285	2845
GORDON	GRAY	SOFT -	2845	2905
SAND & SHALE RILEY	GRAY	SOFT	2905	4710
	BROWN	SOFT	4710	4815
SAND & SHALE	GRAY	SOFT	4815	5148
BENSON	GRAY	SOFT	5148	5185
SAND & SHALE TD	GRAY	HARD	5185	540 1
1.11			5401	

FORM WY-2B

017-3745 Issued 8/30/89 Expres 8/30/9/ Page_of_

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

				Ç.U.		17660	121 171
1)	Well Ope	erator:	Demokratik na spolenje sa sa sa se	Stonewall	Gas Company	41830	(3) 67°
2)							vation: 1170
4)	Well ty	oe: (a)	oil_/	or Gas	i X		
		(b) ·	If Gas:	Production Deep		ound Storage Shallow	
5)	Proposed	l Target	Formatio	n(s):	Benson 43	5	
6)	_	•	G G	5350		•	
7)	Approximate fresh water strata depths: 128' /90'						
8)	Approxi	mate salt	water d	epths:	1350'	and the second	ENTERNA DE TOTO NO CONTRA EL LA PERSONA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA
9)	Approxis	mate coal	seam de	pths:	N/A Coll	l Blossom (e	798
10)							s/ NoX_/
11)	Proposed	l Well Wo	rk:	200 5	Stimula	to Newla	Vall O
12)	There I summer with which						
TYPE		·. •	PECIFICA	•	FOOTAGE IN	ITERVALS	CEMENT
2 2 3 4		I	ELCIPICA	1 .		V Z Z Z V V Z Z Z Z Z Z Z Z Z Z Z Z Z Z	1
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Condi	ictor	11 3/4	ERW	42#	135 '	135 r	38 CSR 18-11./3
Frest	Water					4 Jours	philip
Coal_							385818-11.22
	mediate	8 5/8	ERW	23#	1400	1400'	38 CSR -18-11.3
	action	4 1/2	ERW	10.5#	53501	5350'	38 CSR 18-11.1
Tubir	ng		·				
Liners							
PACKERS: KindAUG 14 1989 Sizes							
Depths set DIVISION OF OIL & GAS							
For Divison of Oil and Gas Use Only							
			TVI		1.134 0		(M/ UDCO

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3)

Date: AUGUST 10, 1989
Operator's well number SANDY #2 (419-S)

API Well No: 47 - 017 - 3745 State - County - Permit

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

	NOTICE AND APPLICATION FO	OR A WELL WORK PERMIT
4)	Surface Owner(s) to be served: (a) Name BRADFORD D. REED	5) (a) Coal Operator: Name N/A
	Address PO BOX 134	Address
	SHIRLEY, WV 26434	(h) Gool Companies
	(b) Name	(b) Coal Owner(s) with Declaration Name SAME AS SURFACE
	Address	
	(c) Name	Address
	(c) NameAddress	Name
	ACUI CO	Address
6)	Inspector MIKE UNDERWOOD Address RT 2, BOX 135	(c) Coal Lessee with Declaration
	SALEM, WV 26426	Address
	Telephone (304)782-1043	×
	TO THE PERSON(S) NAMED ABO	OVE TAKE NOTICE THAT:
owner-communications	Included is the lease or leases or	
	acts by which I hold the right to	
	Included is the information require	
Secti	ion 8(d) of the Code of West Virgin	
		hapter 22B of the West Virginia Code
	ve served copies of this notice and	
accon	mpanying documents pages 1 through	
	Personal Service (Affidavit a	
	X Certified Mail (Postmarked po	stal receipt attached)
	Publication (Notice of Public	ation attached)
		22B and 38 CSR 11-18, and I agree
to th	ne terms and conditions of any perm	
		t I have personally examined and am
	liar with the information submitted	
		ry of those individuals immediately
	_	on, I believe that the information
is tr	tue, accurate, and complete.	
		ant penalties for submitting false
intoi	mation, including the possibility	
	- 1	STONEWALL GAS COMPANY
	By: In An	My M
	Its: PRESI	
	Address PO DR	
	<u>JANE</u>	LEW, WV 26378-0080 304) 884-7881
a	the state of the s	
SUDS	cribed and sworn before me this 10	THday of AUGUST , 1989
R	ichard K Elmite	NAKXX [*] XXXXXXXXX
My C	ommission expires OCTOBER 14, 19	93 Gommissioner Of West Vives